

Nº 13

56 11

56 54

Dec 10 West Hydrographic # 4906

Dredge } No. 5611 Date, Nov. 19, 1909
Hydrog. }

Sdg. Mch. Reel Shot } Lead } lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr.
No. Cor'n { Stem.

Bottom Reading Cor'd Temp. fms.

Temp. Surf. { 84° Time 7:12 P } Air { 83°
84° Time 7:35 P } 83°

Density: Surf. fms.

Wind: Direction East Force 2

Baromet. 29.82 Amt. of Clouds 8 State of Sea S

Weather tem

Direction and Force of Current { Surface
Bottom

Tide.

General Locality Tonini Gulf, S. of Togian

Buta I (E) S 43 W - Tanpan I (mid)

Position 0 40 30 S - 121 50 00 E.

Chart used: No. B & 942 a Ed'n -

Drift: Direction - Distance -

Depth of Haul Surface

Apparatus and Rig used 10' Inter.; double cone,
towing to 20 fm. wire.

Time towing - h. 20 m.
Remarks: No sdg. taken.

Deck Officer Mr. Rohrige Recorder 9727-
11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.			
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.	
			0				
			20	12	00	7	34
			100	13	30	7	32
			200				
			300				
			400				
			500				
			600				
			700				
			800				
			900				
			1000				
			1100				
			1200				
			1300				
			1400				
			1500				
			1600				
			1700				
			1800				
			1900				
			2000				
			2100				
			2200				
			2300				
			2400				
			2500				
			2600				
			2700				
			2800				
			2900				
			3000				
			3100				
			3200				
			3300				
			3400				
			3500				
			3600				
			3700				
			3800				
			3900				
			4000				
			4100				
			4200				
			4300				
			4400				
			4500				
			4600				
			4700				
			4800				
			4900				

N 70 W

Buki d(8)

843 m

6.4 m

Dredge } No. 5612 Date, Nov 20, 1917
 Hydrog. }
 Sdg. Mch. Lassau Reel Lucas Shot }
 Lead lbs.
 Turns 750 Cor'n _____ Depth 750 fms.
 Sdg. Cup Sigaline Amt. Bot'm Sample _____
 Character of Bottom _____
 Thermom. { Make N.Y. Instr. _____
 No. 1472 Cor'n { Stem. _____

Bottom Reading 68° Cor'd Temp. 61.45°
 Temp. Surf. $\left\{ \begin{array}{l} 68^{\circ} \\ 83^{\circ} \end{array} \right.$ Time $\left\{ \begin{array}{l} 61.45^{\circ} \\ 71.45^{\circ} \end{array} \right.$ Air $\left\{ \begin{array}{l} 57^{\circ} \\ 80.3^{\circ} \end{array} \right.$

Density: Surf. ----- *fms.* -----

Wind: Direction Various Force 0-1
Baromet. 29.984 Amt. of Clouds 7 State of Sea 2

Weather Very hot

Tide

General Locality Tomini Gulf of Tagaendo

Position ~~Lat~~ 00 38.00 S. Long 121.40 E.
Chart used: N.B. 9434

Chart used: No. 3111, E. R. A. N.
Drift: Direction S. 5° E. Distance 1.5

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz, 2 wing

weights, 1 Tail weight, 2 glas

Time towing h. 2.2 m.

and something else lost.

Deck Officer W. Robins Recorder C. E. Polson

SOUNDING WIRE.			FMS.	DREDGING CABLE.				
M. Down.	UP.	M.		M. Down.	UP.	M.		
5 57 20	5 26 60		0	6 34 10	8 29 30			
5 8 10	25 20		100	39 35	24 45			
5 9 00	24 30		200	43 30	21 40			
5 9 50	23 40		300	46 50	18 30			
6 00 45	23 05		400	51 10	15 00			
01 40	22 20		500	55 15	10 50			
02 40	21 50		600	58 30	06 35			
03 40	19 05		700	7 02 10	8 02 25			
X 6 04 15	6 20 10	1000	800	05 40	58 25			
			900	09 35	54 40			
			1000	13 50	51 15			
			1100	17 40	47 10			
			1200	7 21 3	7 43 30			
			1300					
			1400					
			1500					
			1600					
			1700					
			1800					
			1900					
			2000					
			2100					
			2200					
			2300					
			2400					
			2500					
			X Let wire out	2600				
			to get link out	2700				
			(600 fath)	2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

S 44 W.

X Let wire out
to get link out
(600 fath)

Bukad (E)

S 3 E

7, m

Dredge } No. 5-6A3 Date, Nov. 20, 19
 Hydrg. }
 Sdg. Mch. Lucas Reel 8 Shot } 35 lbs.
 Turns Cor'n Depth fms.
 Sdg. Cup Amt. Bot'm Sample
 Character of Bottom
 Thermom. { Make Cor'n { Instr.
 { No. Cor'n { Stem.
 Bottom Reading Cor'd Temp.
 Temp. Surf. { Time Air {
 { Time
 Density: Surf. fms.
 Wind: Direction Force
 Baromet. Amt. of Clouds State of Sea
 Weather
 Direction and Force { Surface
 of Current. { Bottom
 Tide
 General Locality
 Position
 Chart used: No. Ed'n
 Drift: Direction Distance
 Depth of Haul
 Apparatus and Rig used
 Time towing h. m.
 Remarks:
 Deck Officer Recorder
 11-1023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

	M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
* 9	40 00	9	42 30	0			
9	40 20	9	41 30	100			
				200			
				300			
* 9	50 30	9	53 00	400			
9	51 20	9	52 50	59 500			
				600			
* 9	56 00	12 01	50	700			
9	57 30	9	57 40	83 800			
				900			
* 9	46 20	9	49 00	1000			
9	46 50	9	47 10	50 1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Dredge } No. 5613 Date, Nov. 20, 1929
Hydrog. } ✓

Sdg. Mch. Lucas Reel S Shot } 35 lbs.
Lead

Turns 752 Cor'n Depth 7.52 fms.

Sdg. Cup Lucas Amt. Bot'm Sample 403.

Character of Bottom Gy II

Thermom. { Make Cor'n { Instr.
No. Cor'n { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84 Time 10:27 A.M. } 84°
85 Time 11:33 A.M. Air 86°

Density: Surf. fms.

Wind: Direction Variable Force 0-1

Baromet. 29.87 Amt. of Clouds 7 State of Sea S.

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality Tomini Gulf, S of Togian Id.

Buka I (E) S 28° E - Cape Apia (NW) S 50° W.

Position 0° 42' S - 121° 44' E.

Chart used: No. 942 a B.M. Ed'n -

Drift: Direction N 20° E Distance 1.8 m.

Depth of Haul Bottom

Apparatus and Rig used 1 1/2' Agassiz, 2 wing
weights, 1 tail weight, 2 glass
floats

Time towing h. 19¹⁰ m.

Remarks:

Deck Officer Mr. Johnson Recorder Newcider

11-1023

Franklin

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M.	Down.	Up.	M.		M.	Down.	Up.	M.
				100				
08	45	21	20	200	34	20	19	30
10	00	20	30	300	38	10	16	20
11	10	19	50	400	41	40	13	00
12	20	19	00	500	45	30	09	10
13	30	18	20	600	49	20	05	20
14	45	17	20	700	53	00	12	01
10	15	30	10	16	45	56	45	57
				752	800			25
					900	11	00	30
					1000	04	30	40
					1100	09	15	36
					1200	11	13	40
					1300	11	32	50
					1400			
					1500			
					1600			
					1700			
					1800			
					1900			
					2000			
					2100			
					2200			
					2300			
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					2500			
					2600			
					2700			
					2800			
					2900			
					3000			
					3100			
					3200			
					3300			
					3400			
					3500			
					3600			
					3700			
					3800			
					3900			
					4000			
					4100			
					4200			
					4300			
					4400			
					4500			
					4600			
					4700			
					4800			
					4900			

Dredge No. 1 Date, 2-2-1906
 Dredge, Mch. 1 Reel 1 Shot Lead 1 lbs.
 Turns Cor'n Depth fms.
 Sdg. Cup 1 Amt. Bot'm Sample
 Character of Bottom
 Thermom. { Make 1 Cor'n { Instr. 1
 { No. 1 { Stem. 1
 Bottom Reading Cor'd Temp.
 Temp. Surf. { Time { Air 1
 { Time 1 {
 Density: Surf. fms.
 Wind: Direction W Force 1
 Baromet. Amt. of Clouds 1 State of Sea 1
 Weather 1
 Direction and Force of Current { Surface W 1
 { Bottom N 1
 Tide 1
 General Locality 1
 Position W
 Chart used: No. 1 Ed'g. W
 Drift: Direction W Distance 1
 Depth of Haul 1
 Apparatus and Rig used 1
 Tug towing 1 h. 1 m.
 Remarks 1
 Deck Officer 1 Recorder 1
 112-1023

SOUNDING WIRE			FMS.	DREDGING CABLE		
M.	DOWN.	UP.	M.	M.	UP.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge No. 4 Date, 2, 19.
 Upper, V 19.
 Sdg. Mch. Reel Shot Lead lbs.
 Turns 1100 Cor'n Depth 1100 fms.
 Sdg. Cup Amt. Bot'm Sample ?
 Character of Bottom
 Thermom. { Make Cor'n { Instr.
 No. Cor'n { Stem.
 Bottom Reading Cor'd. Temp.
 Temp. Surf. { Time 72 { Air
 Time
 Density: Surf. fms.
 Wind: Direction Force
 Baromet. Amt. of Clouds State of Sea
 Weather

Direction and Force of Current { Surface
 of Current { Bottom

Tide

General Locality: M. Shrew Passage

Position

Chart used: No. Ed'n

Drift: Direction N.W. ? Distance 1.5 ?

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz

Time towing h. m.

Remarks:

V

Deck Officer

Recorder

11-1023

SOUNDING WIRE				FMS.	DREDGING CABLE			
M. DOWN.	UP.	M.	M.		M. DOWN.	UP.	M.	
6 29 00	6 39 30			0	7 04 30		56 30	
30 10	57 30			100	59 10		53 25	
31 15	55 40			200	13 00		50 30	
33 20	54 00			300	16 30		47 50	
34 25	53 20			400	19 50		45 10	
				500				
37 10	37 00			600	26 00		39 50	
38 25	49 50			700	27 10		37 00	
39 40	46 40			800	32 30		34 00	
41 10	47 50			900	36 20		30 50	
				1000				
6 44 05	6 48 30			1100	44 05		25 10	
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700	219 8			
				3800				
				3900	30 5			
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Dredge & No. Date, 19
Hydrographer Reel Shot
Sdg. Mech. lbs.
Turns 1021 cor'n Depth 1021 fms.

Sdg. Cup Fr. C. Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84° Time 2:30 P.M. Air {
84° Time 3:00 P.M.

Density: Surf. fms.

Wind: Direction NNE Force 2

Baromet. 29.96 Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality N.E. - T. 11

Position 12° 30' N. 72° 30' W.

Chart used: No. B. 9742 Ed'n

Drift: Direction Distance

Depth of Haul Bottom

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer W. Recorder

SOUNDING WIRE.

M. DOWN. | UP. | M.

FMS.

DREDGING CABLE.

M. DOWN. | UP. | M.

		0	38	45	3	40	20
		100	43	20	37	10	
		200	47	20	34	20	
		300	50	50	31	30	
		400	54	30	28	35	
		500	58	25	25	40	
		600					
		700					
		800					
		900	14	00	14	00	
		1000	18	00	11	25	
		1100					
		1200	26	00	05	55	
		1300	30	25	3	02	55
		1400					
		1500					
		1600					
		1700					
		1800					
		1900					
		2000					
		2100					
		2200					
		2300					
		2400					
		2500					
		2600					
		2700					
		2800					
		2900					
		3000					
		3100					
		3200					
		3300					
		3400					
		3500					
		3600					
		3700					
		3800					
		3900					
		4000					
		4100					
		4200					
		4300					
		4400					
		4500					
		4600					
		4700					
		4800					
		4900					

Dredge No. 1 Date, 19...

Sdg. Mch. Reel Shot Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. Cor'n { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air { Time

Density: Surf. fms.

Wind: Direction Various Force 0 - 1

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. 74 Ed'n

Drift: Direction Distance

Depth of Haul 20 fms

Apparatus and Rig used

Time towing h. 16 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
<i>P</i>	M. DOWN.	UP.	<i>P</i>	M.
		0	6	
		3700	6	
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

Dredge } No. 5617 Date, V, 19
Hydrog. }
Sdg. Mech. Lucas Reel Shot } lbs.
Turns Cor'n Depth 131 fms.
Sdg. Cup Lucas Amt. Bot'm Sample None
Character of Bottom

Thermom. { Make Cor'n { Instr.
No. Cor'n { Stem.

Bottom Reading Cor'd Temp.
Temp. Surf. { 84° Time 10:50 A.M. } Air { 84°
Time

Density: Surf. fms.

Wind: Direction Variable Force 1-0

Baromet. 29.85 Amt. of Clouds 2.0 State of Sea

Weather

Direction and Force { Surface
of Current. Bottom

Tide

General Locality

Position

Chart used: No. B A 944 A Ed'n

Drift: Direction N. 71 W. Distance 1.0

Depth of Haul Bottom

Apparatus and Rig used 12' Geodetic, 2 winch
tail weight 2 fms.

Time towing h. m.
Remarks:

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A.	M.	DOWN.	UP.	A.	M.	DOWN.
10	40	40	10	45	25	10
45			44	15		54
10	42	25	10	44	50	11
				200		40
				300		40
				400		40
				500		40
				600		40
				700		40
				800		40
				900		40
				1000		40
				1100		40
				1200		40
				1300		40
				1400		40
				1500		40
				1600		40
				1700		40
				1800		40
				1900		40
				2000		40
				2100		40
				2200		40
				2300		40
				2400		40
				2500		40
				2600		40
				2700		40
				2800		40
				2900		40
				3000		40
				3100		40
				3200		40
				3300		40
				3400		40
				3500		40
				3600		40
				3700		40
				3800		40
				3900		40
				4000		40
				4100		40
				4200		40
				4300		40
				4400		40
				4500		40
				4600		40
				4700		40
				4800		40
				4900		40

Dredge } No. 420 Date, Nov. 29th, 1911
Hydrog. } Reel 7.1 Shot } 25 lbs.

Sdg. Mch. 12 Reel 7.1 Shot } 25 lbs.
Turns 120 Cor'n Depth 199 fms.

Sdg. Cup Amt. Bot'm Sample 1

Character of Bottom Sedm.

Thermom. { Make Cor'n { Instr.
No. Cor'n { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {
Time

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force { Surface
of Current. Bottom

Tide

General Locality

Position 0° 51' 00" N 127° 23' 00" E

Chart used: No. 1172 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer 22. 1. 1912 Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
11 35	40 11	41 50	0			
136	20	39 20	100			
11 37	10 11	37 30	200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge No. 67 Date, July 19
Hydrog. Sdg. Mech. Reel Shot lbs.
Turns Cor'n Depth fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom

Thermom. { Make Cor'n { Instr.
{ No. Cor'n { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84° Time 2:45 P.M. } Air { 82°
{ 100° Time 3:00 P.M. }

Density: Surf. fms.

Wind: Direction Force

Baromet. 29.72 Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface
{ Bottom

Tide

General Locality

Position

Chart used: No. 112 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. 20 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. DOWN.	UP.	M.	M.	UP.
02	2	0	21/6	23 30
45	150	100	22	35
60	20	200	23	30
06/10	10/00	300	24	30
7	3	400	25	25
265	11	500	25	08 30
		600		
		600-		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

Dredge } No. 1 Date, 1907
Hydrog. }
Sdg. Mch. Reel Shot Leads lbs.
Turns Cor'n Depth fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom

Thermom. { Make _____ Cor'n { Instr.
No. _____ Cor'n { Stem.

Bottom Reading Cor'd Temp.
Temp. Surf. { 89° Time 4 P.M. } Air { 83°
Time 4 P.M. }

Density: Surf. fms.
Wind: Direction West Force 3
Baromet. Amt. of Clouds State of Sea
Weather

Direction and Force of Current { Surface
Bottom

Tide.

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance 1.82

Depth of Haul

Apparatus and Rig used

Time towing h. 2.4 m.

Remarks:

Deck Officer Recorder 11-1023
11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
			0			
			100			
	3900		200	5230	3335	
			300			
			400	40100	4820	
			500	0430	4840	
			600	1000	4268	
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100	7	7	
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. Date, 19
Hydrog }
Sdg. Mch. Reel Shot } lbs.
Turns 3 Cor'n Depth fms.
Sdg. Cup Amt. Bot'm 2 52
Character of Bottom Gr.
Thermom. { Make Instr.
{ No. Stem.
Bottom Reading Cor'd Temp.
Temp. Surf. { 82 Time 6:00 A 80°
{ 83 Time 7:00 A Air 79 1/2
Density: Surf. fms.
Wind: Direction N.W. Force 3-2
Baromet. 9.95 Amt. of Clouds 1/2 State of Sea
Weather
Direction and Force of Current. { Surface
{ Bottom
Tide
General Locality Manay Island, S. E.
Position 10° 20' S. 130° 30' E.
Chart used: No. Ed'n
Drift: Direction 16 Distance 1
Depth of Haul Bottom
Apparatus and Rig used 12' (2 gns. weight 200 lbs)
Time towing h. 20 m.
Remarks:
Deck Officer Recorder
11-1023

SOUNDING WIRE			FMS.	DREDGING CABLE		
M.	DOWN.	UP.		M.	DOWN.	UP.
57	44	00	55	55	00	01
45	00		53	30		30
			100	07	30	58
			200			2
			300	15	40	51
			400	19	30	48
			500	6	24	25
			600			44
			700			30
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5 Date, 1870, 19
Hydrog. }
Sdg. Mech. Reel Shot Leads lbs.
Turns Cor'n Depth fms.
Sdg. Cup Woods Amt. Bot'm Sample None
Character of Bottom Hard *

Thermom. { Make Cor'n { Instr.
No. Cor'n { Stem.
Bottom Reading Cor'd Temp.
Temp. Surf. { Time Air { 81
Time

Density: Surf. fms.
Wind: Direction NW Force 3-4
Baromet. Amt. of Clouds State of Sea
Weather

Direction and Force of Current { Surface
Bottom

Tide 2 fms.
General Locality North of Nantucket Position 37° 15' N. Lat. 71° 15' W. Long.

Position 37° 15' N. Lat. 71° 15' W. Long.

Chart used: No. 1722 Ed'n

Drift: Direction S.E. Distance 200

Depth of Haul Bottom

Apparatus and Rig used 12' Fathoms

Remarks: * 100 fms. Time towing 20 m.

Deck Officer J. M. Recorder J. M.

SOUNDING WIRE			FMS.	DREDGING CABLE		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge No. 5 Date, 1921

Sdg. Mch. 1000 Reel 1000 Shot Lead 100 lbs.

Turns 275 Cor'n 275 Depth 274 fms.

Sdg. Cup 1000 Amt. Bot'm 1000 Sample 1000

Character of Bottom 1000

Thermom. { Make 1000 Cor'n { Instr. 1000
No. 1000 Stem. 1000

Bottom Reading 1000 Cor'd Temp. 1000

Temp. Surf. { 83° Time 7:45 A.M. } Air { 80°
Time 1:24 P.M. } 80°

Density: Surf. 1000 fms.

Wind: Direction West Force 1-2

Baromet. 1000 Amt. of Clouds 1000 State of Sea 1000

Weather 1000

Direction and Force of Current { Surface 1000
Bottom 1000

Tide 1000

General Locality 1000

Position 1000

Chart used: No. 1000 Ed'n 1000

Drift: Direction S. 10° E. Distance 1000

Depth of Haul Bottom 1000

Apparatus and Rig used 1000

Time towing 1000 h. 1000 m. 1000

Remarks:

Deck Officer 1000 Sdg. Mch. Recorder 1000

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
Q M. DOWN.	UP.	Q M.		Q M. DOWN.	UP.	Q M.
7 32 10	7 37		0	7 32 10 35	7 37	
			100			
			200			
7 35 35	7 37 48	7 37 48	300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400	7 37 48 35	7 37	
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5623 Date, ✓ , 19 ✓ /
Hydrog. }
Sdg. Mch. Lucas Reel 2 Shot } 60 lbs.
Turns 272 Cor'n Depth 272 fms.
Sdg. Cup Lucas Amt. Bot'm Sample 3 2

Character of Bottom Fine S. M. sand

Thermom. { Make Cor'n Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 83° Time 9:25 A.M. } Air
83° Time 9:43 A.M. } Air

Density: Surf. fms.

Wind: Direction Force /

Baromet. 29.87 Amt. of Clouds 9 State of Sea

Weather fog

Direction and Force of Current { Surface
Bottom

Tide

Half

General Locality

Position 40° 30' N. 146° W.
Lat. 40° 30' N. Long. 146° W.

Chart used: No. 1 Ed'n

Drift: Direction Distance /

Depth of Haul /

Apparatus and Rig used

100' 6' 1

Time towing h. 20 m.

Remarks:

Deck Officer /

Recorder.

SOUNDING WIRE.			FMS.	DREDGING CABLE.			
M.	DOWN.	UP.	M.	M.	DOWN.	UP.	M.
			0				
54	15	58	40	100	09	25	52
55	20	57	60	200	13	50	49
856	00	8	5700	272000	17	50	46
				400	9	22	40
				500	9	42	40
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Dredge } No. ~~1~~ Date, ~~19~~ , 19

Sdg. Mch. *Line* *Reel* *Shot* *Lead* *lbs.*

Sdg. Cup *Imp. Bot'm*
 Sample

Character of Bottom

$$\{M_{\sigma}\}_{\sigma \in \Sigma} \quad \text{and} \quad \{L_{\sigma}\}_{\sigma \in \Sigma}$$

Thermom. { No. _____ } Cor'n { Stem.

Bottom Reading *Cor'd Temp.*

$$\left. \begin{array}{c} \text{Temp. Surf.} \\ \vdots \\ \text{Time} \end{array} \right\} \quad \left. \begin{array}{c} \text{Time} \\ \vdots \\ \text{Time} \end{array} \right\} \quad \left. \begin{array}{c} \text{.fir} \\ \vdots \\ \text{.fir} \end{array} \right\}$$

Density: Surf. _____ fms.

Wind: Direction. *Forr*

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

*Direction and Force
of Current.* { *Surface*
 Bottom }

Tide

General Locality

Position $\text{pos} = \frac{\text{pos} \times \text{pos}}{\text{pos}}$ $\text{pos} = \frac{\text{pos} \times \text{pos}}{\text{pos}}$ $\text{pos} = \frac{\text{pos} \times \text{pos}}{\text{pos}}$

Chart used: No. _____ Ed'n _____

Drift: Direction *Distance*

Depth of Haul

Apparatus and big area

Review of *Metastatistics*

Book offered by *BookOffer* in association with *BookWorm* | 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	UP.	M.		M. Down.	UP.	M.
			0			
10	21	55	10	22	00	132
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge No. 2 Date, 17/1/19

Sdg. Mch. Reel Shot Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample 200

Character of Bottom fine sand

Thermom. { Maker Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd. Temp.

Temp. Surf. { Time { Air
Time

Density: Surf. fms.

Wind: Direction Variable Force 1

Baromet. 29.86 Amt. of Clouds 9 State of Sea 1

Weather bz

Direction and Force { Surface
of Current. Bottom

Tide

General Locality (L)

Position

Chart used: No. Ed'n

Drift: Direction S. 15 E. Distance 1.5 m.

Depth of Haul Bottom

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer / Recorder

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M.	DOWN.	UP.	M.		M.	DOWN.	UP.	M.
10	27	25	10	35	30	0	11	
	28	30		34	20	100	11	
	29	40		33	25	200	11	
						300	5	
						400		
						500	11	
						600		
						700		
						800		
						900		
						1000		
						1100		
						1200		
						1300		
						1400		
						1500		
						1600		
						1700		
						1800		
						1900		
						2000		
						2100		
						2200		
						2300		
						2400		
						2500		
						2600		
						2700		
						2800		
						2900		
						3000		
						3100		
						3200		
						3300		
						3400		
						3500		
						3600		
						3700		
						3800		
						3900		
						4000		
						4100		
						4200		
						4300		
						4400		
						4500		
						4600		
						4700		
						4800		
						4900		

Dredge No. 19
 Hydrog. Date, 19
 Sdg. Mch. Reel Shot lbs.
 Turns Cor'n Depth fms.
 Sdg. Cup Amt. Bot'm Sample
 Character of Bottom gravel-free
 Thermom. Make Cor'n Instr.
 No. Cor'n Stem.
 Bottom Reading Cor'd Temp.
 Temp. Surf. Time Time Air
 84° 2:30 2:30 52°
 Density: Surf. fms.
 Wind: Direction Force
 Baromet. Amt. of Clouds State of Sea
 Weather Westerly
 Direction and Force of Current Surface
 of Current Bottom
 Tide High
 General Locality Passage
 Name 1000 ft. 15° 15' S. Lat. 127° 28' E. Long.
 Position 0° 07' N - 127° 28' E.
 Chart used: No. Ed'n
 Drift: Direction Distance
 Depth of Haul
 Apparatus and Rig used
 Time towing - hr. 21 m.
 Remarks:
 Deck Officer Recorder
 11-1023

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. DOWN.	UP.		M.	M.	M.
142	00	0	148	25	22
152	10	100	151	05	22
44	00	200	47	05	22
45	10	300	48	05	22
46	20	400	49	05	22
47	30	500	50	05	22
48	40	600	51	05	22
49	50	700	52	05	22
50	60	800	53	05	22
51	70	900	54	05	22
52	80	1000	55	05	22
53	90	1100	56	05	22
54	100	1200	57	05	22
55	110	1300	58	05	22
56	120	1400	59	05	22
57	130	1500	60	05	22
58	140	1600	61	05	22
59	150	1700	62	05	22
60	160	1800	63	05	22
61	170	1900	64	05	22
62	180	2000	65	05	22
63	190	2100	66	05	22
64	200	2200	67	05	22
65	210	2300	68	05	22
66	220	2400	69	05	22
67	230	2500	70	05	22
68	240	2600	71	05	22
69	250	2700	72	05	22
70	260	2800	73	05	22
71	270	2900	74	05	22
72	280	3000	75	05	22
73	290	3100	76	05	22
74	300	3200	77	05	22
75	310	3300	78	05	22
76	320	3400	79	05	22
77	330	3500	80	05	22
78	340	3600	81	05	22
79	350	3700	82	05	22
80	360	3800	83	05	22
81	370	3900	84	05	22
82	380	4000	85	05	22
83	390	4100	86	05	22
84	400	4200	87	05	22
85	410	4300	88	05	22
86	420	4400	89	05	22
87	430	4500	90	05	22
88	440	4600	91	05	22
89	450	4700	92	05	22
90	460	4800	93	05	22
91	470	4900	94	05	22

Dredge } No. 19
 Hydrog. } Date, 19
 Sdg. Mch. Reel Shot lbs.
 Turns Cor'n Depth fms.
 Sdg. Cup Int. Bot'm Sample
 Character of Bottom
 Thermom. { Make Instr.
 { No. Stem.
 Bottom Reading Cor'd Temp.
 Temp. Surf. { Time Air
 { Time
 Density: Surf. fms.
 Wind: Direction Force
 Baromet. Amt. of State of
 Weather Clouds Sea
 Direction and Force of Current. { Surface
 { Bottom
 Tide
 General Locality 401.000
 Position $2^{\circ} 07' 30'' N$ $127^{\circ} 29' 00'' E$
 Chart used: No. 2429 Pd. Ed'n
 Drift: Direction S.W. Distance 10 miles
 Depth of Haul 10 fms.
 Apparatus and Rig used G.S. before
 Time towing h. m.

Remarks:

Deck Officer C. J. G. Recorder Frank
 11-1923
 Vice Johnson C. H. Jones

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
0	0	0	0	0	0	0
50	12	10	100	200	300	400
50	11	30	200	300	400	500
3	30	3	300	400	500	600
09	10	25	400	500	600	700
			500	600	700	800
			600	700	800	900
			700	800	900	1000
			800	900	1000	1100
			900	1000	1100	1200
			1000	1100	1200	1300
			1100	1200	1300	1400
			1200	1300	1400	1500
			1300	1400	1500	1600
			1400	1500	1600	1700
			1500	1600	1700	1800
			1600	1700	1800	1900
			1700	1800	1900	2000
			1800	1900	2000	2100
			1900	2000	2100	2200
			2000	2100	2200	2300
			2100	2200	2300	2400
			2200	2300	2400	2500
			2300	2400	2500	2600
			2400	2500	2600	2700
			2500	2600	2700	2800
			2600	2700	2800	2900
			2700	2800	2900	3000
			2800	2900	3000	3100
			2900	3000	3100	3200
			3000	3100	3200	3300
			3100	3200	3300	3400
			3200	3300	3400	3500
			3300	3400	3500	3600
			3400	3500	3600	3700
			3500	3600	3700	3800
			3600	3700	3800	3900
			3700	3800	3900	4000
			3800	3900	4000	4100
			3900	4000	4100	4200
			4000	4100	4200	4300
			4100	4200	4300	4400
			4200	4300	4400	4500
			4300	4400	4500	4600
			4400	4500	4600	4700
			4500	4600	4700	4800
			4600	4700	4800	4900

Dredge No. 27 Date, Jan 20, 19

Sdg. Mch. 1 Reel Shot Leads lbs.

Turns Cor'n Depth 22 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. Make Cor'n Instr. Cor'n Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. 35 Time 6 p. 29.8 Air 83

Time

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds 9-10 State of Sea S.

Weather

Direction and Force of Current Surface Cor'n

Bottom

Tide

General Locality

Position

Chart used: No. BA 942 a Ed'n -

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder C. J. G. 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M.	Down.	Up.	M.	M.	Up.	M.
			0	6	00	00
			100	6	02	00
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 1 Date, 19

Dredg. Mch. Reel Shot } lbs.

Turns 1291 Cor'n Depth 1291 fms.

Dredg. Cup Searas Amt. Bot'm Sample None

Character of Bottom

Thermom. { Make Cor'n { Instr.
 No. — Stem.

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 84° Time 12:45 P.M. } Air { 86°
 040° Time 12:45 P.M. } 01

Density: Surf. fms.

Wind: Direction Force

Baromet. 29.8 Amt. of Clouds 5 State of Sea S

Weather

Direction and Force { Surface
 of Current. Bottom

Tide

General Locality: Between P. & S. Islands

Position 0° 28' S. 127° 51' E. 1 (m.) N.

Chart used: No. 942 B.A. Rd'n —

Drift: Direction S. 20° E. Distance 2.2

Depth of Haul

Apparatus and Rig used

Time towing h. 0 m.

Remarks:

Deck Officer Recorder

11-1023

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. DOWN.	UP.	M.			M. DOWN.	UP.	M.	
08	45	33	10	100	46	45	20	
10	00	32	15	200	30	45	58	
11	10	31	30	300	54	25	55	
12	25	30	45	400	57	53	52	
				500			15	
				600				
15	00	39	00	700	05	34	46	
				800			35	
17	35	27	10	900	17	55	48	
18	40	26	10	1000	16	00	36	
19	55	25	10	1100	19	15	33	
				1200			20	
11	22	00	11	23	00	1491	1800	
							26	
							40	
				1400				
				1500	34	05	18	
				1600	38	10	14	
				1700			40	
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. 372 Date, 19.
Hydrog. }
Sdg. Mch. Reel Shot } lbs.
Turns Cor'n Depth fms.
Sdg. Cup Amt. Bot'm Sample

Character of Bottom $\textcircled{2}$.
Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.
Temp. Surf. { 63° Time 6:30 } Air { 60°
Time

Density: Surf. fms.
Wind: Direction Variable Force 0-1
Baromet. Amt. of Clouds State of Sea

Weather $\textcircled{2}$
Direction and Force of Current { Surface
Bottom

Tide $\textcircled{1}$
General Locality

Position 2
Chart used: No. 2429 Ba Ed'n
Drift: Direction Distance
Depth of Haul Bottom
Apparatus and Rig used 12" Agassiz MR2 swng

Time towing h. m.

Remarks: By boat to Dredge Prospecting

Deck Officer 22 Recorder
11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.			
Q	M. DOWN.	UP.	Q M.	Q	M. DOWN.	UP.	M.
	42	612	10	0	612	618	
	4	187		100	30	40	55
	52	187		200	34	40	52
				300	37	40	52
				400	6140	120	6140
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Dredge No. 617 Date, 2nd 1911

Sdg. Mch. Reel Shot Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup 2 meas Amt. Bot'm Sample 2 fms.

Character of Bottom

Thermom. { Make Instr. Cor'n { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84 Time 9:03 A.M. } Air { 81 1/2
85 Time 10:00 A.M. } 82

Density: Surf. fms.

Wind: Direction W.N.W. Force 2.

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality Malineconf.

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul Bottom

Apparatus and Rig used

Time towing h. m. s. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M.	DOWN.	UP.	M.			M.	DOWN.	UP.	M.
				0					
47	50	57	10	100		106	30	26	30
48	30	56	26	200		10	20	23	16
49	15	55	35	300		14	10	19	
50	10	54	45	400		18	00	16	20
				500				11	
8	51	45	8	53	05	569	600	85	20
						700		29	20
						800	33	55	03 00
						860	9	36	50
						1000		10	01 00
						1100			
						1200			
						1300			
						1400			
						1500			
						1600			
						1700			
						1800			
						1900			
						2000			
						2100			
						2200			
						2300			
						2400			
						2500			
						2600			
						2700			
						2800			
						2900			
						3000			
						3100			
						3200			
						3300			
						3400			
						3500			
						3600			
						3700			
						3800			
						3900			
						4000			
						4100			
						4200			
						4300			
						4400			
						4500			
						4600			
						4700			
						4800			
						4900			

SOUNDING WIRE.

M. Down. | UP. | M.

FMS.

DREDGING CABLE.

M. Down. | UP. | M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

SOUNDING WIRE.				FMS.	DREDGING CABLE.						
2' M. Down.	Up.	2' M.			2' M. Down.	Up.	2' M.				
4.04	10	4	22	10	0	4	24	40	6	08	30
05	20		21	10	100		28	40	03	25	
06	10		20	15	200		32	30	02	20	
07	0		17	0	300		36	10	13	15	
10	ND	1	18	25	400		40	05	18	20	
08	40		17	30	500		42	10			
09	48		16	30	600		46	15	50	30	
10	45		15	30	700		49	30	47	30	
11	50		14	20	800		52	20	44	30	
12	60	4	13	50	900		55	10	4		
					1000		59	10	38	35	
					1100		502	45	36	00	
					1200		06	10	32	00	
					1300		08	15	30	35	
					1400						
					1500						
					1600						
					1700						
					1800						
					1900						
					2000						
					2100						
					2200						
					2300						
					2400						
					2500						
					2600						
					2700						
					2800						
					2900						
					3000						
					3100						
					3200						
					3300						
					3400						
					3500						
					3600						
					3700						
					3800						
					3900						
					4000						
					4100						
					4200						
					4300						
					4400						
					4500						
					4600						
					4700						
					4800						
					4900						

12, 5

Dredge } No. 1522 Date, Oct. 15, 1925
Hydro }
Sdg. Mch. — Reel — Shot } lbs.
Turns — Cor'n. — Depth — fms.
Sdg. Cup — Amt. Bot'm Sample —

Character of Bottom —
Thermom. { Make Cor'n { Instr.
No. — — Stem.

Bottom Reading Cor'd. Temp.
Temp. Surf. { 71° Time 71° { 52°
84° Time 71° { 51°

Density: Surf. fms.

Wind: Direction West Force 3
Baromet. Amt. of Clouds 8 State of Sea

Weather

Direction and Force { Surface
of Current. Bottom

Tide

General Locality

Position 1° 23' 00" S 127° 44' 11" E

Chart used: No. 2 Ed'n

Drift: Direction — Distance —

Depth of Haul —

Apparatus and Rig used 10' Dredge

Time towing h. 17 m.

Remarks

Deck Officer

Recorder

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.	M. DOWN.	UP.	M.
		0			
		200			
		300			
		400			
		500			
		600			
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
		1400			
		1500			
		1600			
		1700			
		1800			
		1900			
		2000			
		2100			
		2200			
		2300			
		2400			
		2500			
		2600			
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			
		4100			
		4200			
		4300			
		4400			
		4500			
		4600			
		4700			
		4800			
		4900			

Dredge } No. 5634 Date, 19

Hydro Sdg. Mch. Lucas Reel Shot
Turns 329 Cor'n Depth 329 lbs.

Sdg. Cup Lucas Amt. Bot'm Sample No trace.

Character of Bottom

Thermom. { Make — Cor'n { Instr.
No. — Stem.

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 84° Time 6:36 A.M. Air { 81°
811° Time 7:11 A.M. 81°

Density: Surf. — fms.

Wind: Direction N.W. Force 2 - 3

Baromet. 29.76 Amt. of Clouds 9 State of Sea

Weather fine

Direction and Force of Current. { Surface
Bottom

Tide

General Locality

Position 5° 4' W.

Chart used: No. P Ed'n

Drift: Direction S. (S) Distance 1

Depth of Haul Bottom

Apparatus and Rig used 12

Time towing h. m.

Remarks:

Deck Officer John W. Lucas Recorder John W. Lucas

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.	UP.	M.	M.		M. Down.	UP.	M.	
6	23	50	6	31	00	0	6	36
	24	50		30	10	100	7	33
		50		29	20	200		30
6	26	50	6	28	25	300	7	27
	27	15	6	27	55	400		00
						500	7	23
						550	7	17
						600	7	15
						700		30
						800		
						900		
						1000		
						1100		
						1200		
						1300		
						1400		
						1500		
						1600		
						1700		
						1800		
						1900		
						2000		
						2100		
						2200		
						2300		
						2400		
						2500		
						2600		
						2700		
						2800		
						2900		
						3000		
						3100		
						3200		
						3300		
						3400		
						3500		
						3600		
						3700		
						3800		
						3900		
						4000		
						4100		
						4200		
						4300		
						4400		
						4500		
						4600		
						4700		
						4800		
						4900		

Dredge } No. 5125 Date, 22. 2. 1910
Hydrog. }

Sdg. Mch. 100 lbs Reel 100 ft Shot 6.0 lbs.

Turns 6 Cor'n 100' Depth 100' fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom *Rocky bottom, sand, and shell.*

Thermom. { Make Cor'n Instr.
No. Cor'n Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time 10:00 a.m. Air 10:00 a.m.
Time 9:00 a.m. Air 9:00 a.m.

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather *Cloudy.*

Direction and Force of Current { Surface
Bottom

Tide

General Locality *Off the coast of Chile.*

Position *13° 13' S - 127° 39' E.*

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing 1 hr. 15 m.

Remarks: *To the west of the coast of Chile.*

Shallow.

Large haulings, 100 ft.

100 ft. of sand, shell, and rock.

100 ft. of sand, shell, and rock.

100 ft. of sand, shell, and rock.

Deck Officer *(Signature)* Recorder *(Signature)*

SOUNDING WIRE.

M. DOWN. | UP. | M.

FMS.

DREDGING CABLE.

M. DOWN. | UP. | M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge No. 1 Date, 19

Hydrog. Sdg. Mch. Reel Shot Lead lbs.

Turns 1262 Cor'n Depth 1262 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom any M. fine s.

Thermom. Make Instr. Cor'n Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. Time 16.15° Air 65°
83° Time 16.45° Air 83°

Density: Surf. fms.

Wind: Direction Various Force 1-3

Baromet. 29.75 Amt. of Clouds 4/5 State of Sea

Weather fog

Direction and Force of Current Surface

Bottom

Tide

General Locality

Position

Chart used: No. 942 B.D. Ed'n

Drift: Direction S x E. Distance 2.5 miles

Depth of Haul bottom

Apparatus and Rig used 12' a.

Time towing

Time towing h. 20 1/2 m.

Remarks:

Deck Officer Recorder 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
210	0430	0	12	45	45	45
400		100	142			
600		200	160			
800		300	1715			
1000		400	1830			
1200		500	1930			
1300	3930	600	2030			
1370	3745	700	2105			
1450	3745	800	2130			
1500	4700	900	2130			
1550	4515	1000	2130			
1700	4500	1100	2130			
1700	4500	1200	2130			
1700	4500	1300	2130			
1700	4500	1400	2130			
1700	4500	1500	2130			
1700	4500	1600	2130			
1700	4500	1700	2130			
1700	4500	1800	2130			
1700	4500	1900	2130			
1700	4500	2000	2130			
1700	4500	2100	2130			
1700	4500	2200	2130			
1700	4500	2300	2130			
1700	4500	2400	2130			
1700	4500	2500	2130			
1700	4500	2600	2130			
1700	4500	2700	2130			
1700	4500	2800	2130			
1700	4500	2900	2130			
1700	4500	3000	2130			
1700	4500	3100	2130			
1700	4500	3200	2130			
1700	4500	3300	2130			
1700	4500	3400	2130			
1700	4500	3500	2130			
1700	4500	3600	2130			
1700	4500	3700	2130			
1700	4500	3800	2130			
1700	4500	3900	2130			
1700	4500	4000	2130			
1700	4500	4100	2130			
1700	4500	4200	2130			
1700	4500	4300	2130			
1700	4500	4400	2130			
1700	4500	4500	2130			
1700	4500	4600	2130			
1700	4500	4700	2130			
1700	4500	4800	2130			
1700	4500	4900	2130			

✓

Dredge No. 137 Date, 1-2-1919
 Hydrog. Sdg. Mech. Reel Shot Lead lbs.
 Turns Cor'n Depth 720 fms.
 Sdg. Cup Amt. Bot'm Sample
 Character of Bottom gy M J

Thermom. Make — Cor'n Instr.
 No. — Stem.

Bottom Reading — Cor'd. Temp.

Temp. Surf. 83° Time 8 am Air 7
 Time 10:30

Density: Surf. fms.
 Wind: Direction 10 Force
 Baromet. 29.87 Amt. of Clouds 10 State of Sea
 Weather over

Direction and Force of Current. Surface
 of Current. Bottom

Tide

General Locality 3° 53' S. 126° 48' E.

Position 3° 53' 20"S - 126° 48' E.

Chart used: No. 942 B Ed'n —

Drift: Direction S 21 W Distance 1.3 m.

Depth of Haul 7.5 fms.

Apparatus and Rig used 12' dredge, 10' net, 2' trawl, 1' trawl

15' beam line

Time towing h. m.

Remarks: 15' beam line

15' beam line

Deck Officer Recorder 11-1021

SOUNDING WIRE			FMS.	DREDGING CABLE		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
		7 10 25	0	7	6 22	3
			100		25 00	
01	35	18 05	200		23 30	17 50
		20	300			23
		10 25	400			23
04	35	09 50	500		34 30	33 10
05	45	09 00	600		38 05	21 10
7	06 45	7 07 50	700		42 00	25 05
			800			
			900			
			1000			
			1100	7 57 25	11	28
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Hydrog. } No. 49357 Date, Dec 10, 1909

Sdg. Mch. Reel ~~Line~~ Shot } 60 lbs.

Turns 11 Cor'n ~ Depth 198 fms.

Sdg. Cup ~~Line~~ Amt. Bot'm Sample T

Character of Bottom

Thermom. { Make Cor'n { Instr.
No. Cor'n { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {
Time

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force { Surface
of Current. Bottom

Tide

General Locality ()

Position 48° 16' N. 125° 10' E.

Chart used: No. 742 B.C. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing hr. m.

Remarks:

Deck Officer Recorder 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.			
P.	M. DOWN.	UP.	M.	M.	DOWN.	UP.	M.
	428	40	0				
	2		100				
	14	40	1	200			
			300				
			400				
			500				
			600				
			700				
			800				
			900				
			1000				
			1100				
			1200				
			1300				
			1400				
			1500				
			1600				
			1700				
			1800				
			1900				
			2000				
			2100				
			2200				
			2300				
			2400				
			2500				
			2600				
			2700				
			2800				
			2900				
			3000				
			3100				
			3200				
			3300				
			3400				
			3500				
			3600				
			3700				
			3800		212	2	
			3900				
			4000				
			4100				
			4200				
			4300				
			4400				
			4500				
			4600				
			4700				
			4800				
			4900				

Dredge No. 4 Date, 19

Sdg. Mch. Reel Shot Lead lbs.

Turns 617 Cor'n Depth 47 fms.

Sdg. Cup Amt. Bof'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr.
 No. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 86° Time 2:25 } Air { 84°
 Time 1:48 } Air { 84°

Density: Surf. fms.

Wind: Direction Various Force 1-2

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current. { Surface
 of Current. Bottom

Tide

W

General Locality

Position S. Lat. 15° 30' E. Long. 78° 30' E.

Chart used: No. 942 B.C. Ed'n

Drift: Direction S. 78° E. Distance 10 mi.

Depth of Haul Bottom

Apparatus and Rig used

Time towing h. m.

Remarks: Located

Deck Officer Recorder

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
P.	M. DOWN.		UP.	P. M.
65	00 12	0	2	07 30 3 22 00
	04 30	100	12 00	15 30
	03 40	200	4.6 10	15 00
	02 50	300	17.35	11 30
	02 00	400		
		500		
	01 00 57	600		
		700	12 36 00 2 56 00	
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

Dredge No. 19
 Hydro. Date, 19
 Sdg. Mch. Reel J. Shot
 Turned Cor'n Depth fms.
 Sdg. Cup Amt. Bot'm 302
 Character of Bottom
 Thermom. { Make Instr.
 No. Stem.
 Bottom Reading Cor'd. Temp.
 Temp. Surf. { 84° Time { Air
 Wind: Direction Variable Force 1-
 Baromet. Amt. of Clouds 7 State of Sea
 Weather
 Tide

Direction and Force of Current { Surface
 of Current { Bottom

General Locality 70° S.
 Position 15° S. - 170° E.

Chart used: No. 111 Edn. (1881) 15

Drift: Direction 1136°W. Distance 0.8 mi.

Depth of Haul Bottom

Apparatus and Rig used

Time towing 2 h. 27 m.

Remarks:

Deck Officer 1 J. S. G. Recorder J. Smith
 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
		0				
05	45	39 20	100	37 8	30	100 30
06	45	38 25	200	6 03	50	26 20
07	45	37 30	300	07	50	22 25
08	50	36 30	400	11	30	18 50
09	55	35 35	500	15	05	15 35
11	05	34 40	600	18	30	12 00
			700			
		800				
14	25	31 53	900	28	20	59 25
15	40	31 05	1000	31	30	54 50
16	55	30 20	1100	34	40	50 25
18	05	29 25	1200	37	45	46 00
19	25	28 30	1800	40	50	41 30
20	45	27 40	1400	44	20	36 10
22	05	26 40	1500	47	40	29 55
5	23	15 37 25 50 15 LA	1600	50	50	29 50
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 16160
Hydrog. }

Date,

, 19

Sdg. Mch.

Reel

Shot }

lbs.

Turns 1 Cor'n 2 Depth 26 fms.

Sdg. Cup Position Amt. Bot'm Sample

Character of Bottom Sand

Thermom. { Make

Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Time { Air { 82°

Density: Surf. fms.

Wind: Direction Force 0

Baromet. 30.0 Amt. of Clouds 7 State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position

Chart used: No. 16160 Ed'n

Drift: Direction 27° 33' 26''

Distance

Depth of Haul 5 fms

Apparatus and Rig used

Time towing

h.

m.

Remarks:

Deck Officer Mr. Johnson Recorder

11-1073

SOUNDING WIRE		FMS.	DREDGING CABLE	
M. DOWN.	UP.		M.	M.
0	0	0	0	0
100	100	100	100	100
200				
300				
400				
500				
600				
700				
800				
900				
1000				
1100				
1200				
1300				
1400				
1500				
1600				
1700				
1800				
1900				
2000				
2100				
2200				
2300				
2400				
2500				
2600				
2700				
2800				
2900				
3000				
3100				
3200				
3300				
3400				
3500				
3600				
3700				
3800				
3900				
4000				
4100				
4200				
4300				
4400				
4500				
4600				
4700				
4800				
4900				

Dredge No. 1 Date, Oct 1, 1921

Hydrog. Sdg. Meth. Lanner Reel TN Shot 35 lbs.

Turns Cor'n Depth 39 fms.

Sdg. Cup Amt. Bot'm Sample Trace

Character of Bottom Silt

Thermom. Make Instr. ---
No. Cor'n Stem. ---

Bottom Reading Cor'd. Temp. ---

Temp. Surf. Time Air ---
Time ---

Density: Surf. fms. ---

Wind: Direction Variable Force 1-2

Baromet. 29.90 Amt. of Clouds 6 State of Sea S

Weather ~~Windy~~

Direction and Force Surface ---
of Current. Bottom ---

Tide ---

General Locality ---

Position Lat. 41° 10' N. Long. 71° 10' W. Tides

Chart used: No. 3470 BA Ed'n 1

Drift: Direction S 81 W Distance 0.6

Depth of Haul 13.0 fms.

Apparatus and Rig used 12' A

2, 1 tail weight

Time towing h. 1 m.

Remarks:

Deck Officer M. H. H. Hydrographer Recorder H. W. C. R. 11-1023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down, Up, M.

M. Down, Up, M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge No. / Date, 19 /
 Hydrometer / Reel T A Shot
 Sdg. Mch. / Lbs.
 Turns Cor'n Depth 37 fms.
 Sdg. Cup Amt. Bot'm Sample
 Character of Bottom

Thermom. { Make Cor'n { Instr.
 No. Stem.

Bottom Reading Cor'd. Temp.

Temp. Surf. { 85° Time 11: A } Air { 84°
 0° Time 11: 10 AM

Density: Surf. fms.

Wind: Direction Variable Force 1-2

Baromet. 27.5 Amt. of Clouds (State of Sea

Weather

Direction and Force { Surface
 of Current. Bottom

Tide

General Locality

Lat. 34° 15' N. Long. 118° 15' W.

Position

Chart used: No. 5 Ed'n

Drift: Direction N Distance

Depth of Haul

Apparatus and Rig used (D)

Time towing h. m.

Remarks:

Deck Officer

Recorder

SOUNDING WIRE				FMS.	DREDGING CABLE			
M.	Down.	Up.	M.		M.	Up.	Down.	M.
10	50	15	10	52	10	0	10	56
10	50	50	10	51	10	38	100	00
						200		
						300		
						400		
						500		
						600		
						700		
						800		
						900		
						1000		
						1100		
						1200		
						1300		
						1400		
						1500		
						1600		
						1700		
						1800		
						1900		
						2000		
						2100		
						2200		
						2300		
						2400		
						2500		
						2600		
						2700		
						2800		
						2900		
						3000		
						3100		
						3200		
						3300		
						3400		
						3500		
						3600		
						3700		
						3800		
						3900		
						4000		
						4100		
						4200		
						4300		
						4400		
						4500		
						4600		
						4700		
						4800		
						4900		

Dredge } No. 25 Date 19
 Hydrog } Reel Shot
 Sdg. Mch. Reel Lead lbs.
 Turns 715 Cor'n Depth 715 fms.
 Sdg. Cup Amt. Bot'm Sample 1/2 0.
 Character of Bottom 022 77
 Thermom. { Make Cor'n { Instr. —
 No. Cor'n { Stem. —
 Bottom Reading Cor'd Temp. —
 Temp. Surf. { 84° Time 4:00 P.M. Air 83.5°
 84° Time 4:26 P.M. Air 83.5°
 Density: Surf. fms.
 Wind: Direction Force
 Baromet. Amt. of Clouds State of Sea
 Weather 022 3

Direction and Force { Surface
 of Current. { Bottom

Tide

General Locality Port of Elizabethtown
 Position 30° 45' N. Lat. 75° 12' W. Long.
 Chart used: No. 8 Ed'n —
 Drift: Direction Distance
 Depth of Haul 20 fms.
 Apparatus and Rig used 15' 10 fms.
 Time towing 1 h. 17 m.

Remarks:

25' to bottom Recorder 11-1023
 Deck Officer

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down.	UP.	M.
----------	-----	----

M. Down.	UP.	M.
----------	-----	----

0		
100		
200		
300		
400		
500		
600		
700		
800		
900		
1000		
1100		
1200		
1300		
1400		
1500		
1600		
1700		
1800		
1900		
2000		
2100		
2200		
2300		
2400		
2500		
2600		
2700		
2800		
2900		
3000		
3100		
3200		
3300		
3400		
3500		
3600		
3700		
3800		
3900		
4000		
4100		
4200		
4300		
4400		
4500		
4600		
4700		
4800		
4900		

Dredge No. 155 Date, 22, 1911

Shot, Meter, 1000 ft. Shot Lead, 10 lbs.

Turns Cor'n Depth 22 fms.

Sig. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 62° Time 8:00 } Air { 62°
Time

Density: Surf. fms.

Wind: Direction Force 0

Baromet. Amt. of Clouds / State of Sea

Weather

Direction and Force { Surface /
of Current. Bottom

Tide

General Locality (E. Co.)

Position 32° 27' 24" N. 70° 45' 00" E.

Chart used: No. 3470 Ed'n.

Drift: Direction Distance 1 mi.

Depth of Haul Bottom

Apparatus and Rig used

1000 ft. 10 lbs.

Bottom

Time towing h. 11 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE		FMS.	DREDGING CABLE.	
M. DOWN.	UP.	C. M.	M. DOWN.	UP.
		0		0
	100	100	8	8
	200	200	102	100
	300			
	400			
	500			
	600			
	700			
	800			
	900			
	1000			
	1100			
	1200			
	1300			
	1400			
	1500			
	1600			
	1700			
	1800			
	1900			
	2000			
	2100			
	2200			
	2300			
	2400			
	2500			
	2600			
	2700			
	2800			
	2900			
	3000			
	3100			
	3200			
	3300			
	3400			
	3500			
	3600			
	3700			
	3800			
	3900			
	4000			
	4100			
	4200			
	4300			
	4400			
	4500			
	4600			
	4700			
	4800			
	4900			

✓

Dredge } No. _____ Date, 19 _____
 Hydrog. }
 Sdg. Mch. _____ Reel _____ Shot }
 Turns _____ Cor'n _____ Depth _____ lbs.
 Sdg. Cup _____ Amt. Bot'm Sample _____ fms.
 Character of Bottom _____
 Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ Stem. _____
 Bottom Reading _____ Cor'd Temp. _____
 Temp. Surf. { 83° Time _____ { Air _____
 { Time 21°53' _____
 Density: Surf. fms.
 Wind: Direction Various Force 1-2
 Baromet. 29.92 Amt. of Clouds 8-9 State of Sea
 Weather Fine
 Direction and Force of Current { Surface
 { Bottom
 Tide _____
 General Locality (Lat.) 32° 25' N.
 Position (Long.) 122° 16' E.
 Chart used: No. 3470 Ed'n.
 Drift: Direction 24° 40' N. Distance 1/2 mi.
 Depth of Haul 50
 Apparatus and Rig used As before
 Time towing h. 1/2 m.
 Remarks:

SOUNDING WIRE.

M. DOWN. | UP. | M.

FMS.

DREDGING CABLE.

M. DOWN. | UP. | M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge No. 19
Hydrog. Date, 19

Sdg. Mech. Lines 6 Reel 100' Shot 60 lbs.
Turns 456 Cor'n Depth 456 fms.
Sdg. Cup Amt. Bot'm Sample

Character of Bottom sand. 24

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd. Temp.

Temp. Surf. { 83° Time 11:45 A.M. } Air { 79°
83° Time 12:30 P.M. } 80°

Density: Surf. fms.

Wind: Direction 160° Force 2

Baromet. 29.63 Amt. of Clouds 7 State of Sea 2

Weather 21

Direction and Force { Surface
of Current. Bottom

Tide

General Locality

Position Lat. 5° 31' 30" S Long. 123° 22' 40" E

Chart used: No. 3816 Ed'n

Drift: Direction Distance

Depth of Haul 10 fms.

Apparatus and Rig used As h

Time towing h. 20 m.

Remarks

Deck Officer Recorder 100128
M. J. Langard. G. W. Price
11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
<u>Q</u> M. Down.	UP.	<u>P</u> M.		M. Down.	UP.	<u>P</u> M.
11	32	08	11	41.00	0	
	33	00		42.00	100	
	32	08		39.20	200	
	34	00		38.40	300	
	35	48		37.68	400	
11	26	20	11	37.30	480	17
					500	
					600	
					700	
					800	
					900	
					1000	
					1100	
					1200	
					1300	
					1400	
					1500	
					1600	
					1700	
					1800	
					1900	
					2000	
					2100	
					2200	
					2300	
					2400	
					2500	
					2600	
					2700	
					2800	
					2900	
					3000	
					3100	
					3200	
					3300	
					3400	
					3500	
					3600	
					3700	7.5 m
					3800	
					3900	
					4000	
					4100	
					4200	
					4300	
					4400	
					4500	
					4600	
					4700	
					4800	
					4900	

Dredge $\left\{ \begin{array}{l} \text{No.} \\ \text{Hydrog.} \end{array} \right\}$ 19
 Sdg. Mch. Date, 19
 Reel Shot
 Turns Cor'n Depth 519 fms.
 Sdg. Cup Lucas Amt. Bot'm Sample Black
 Character of Bottom Gravel 0
 Thermom. $\left\{ \begin{array}{l} \text{Make} \\ \text{No.} \end{array} \right\}$ Cor'n $\left\{ \begin{array}{l} \text{Instr.} \\ \text{Stem.} \end{array} \right\}$
 Bottom Reading Cor'd. Temp.
 Temp. Surf. $\left\{ \begin{array}{l} 83^{\circ} \\ \text{Time } 2:44 \text{ P.M.} \\ \text{Time } \end{array} \right\}$ Air $\left\{ \begin{array}{l} 83^{\circ} \\ \end{array} \right\}$
 Density: Surf. fms.
 Wind: Direction W S.W. Force 3+
 Baromet. 29.982 Amt. of Clouds 7 State of Sea $\left\{ \begin{array}{l} \text{S} \\ \text{S} \end{array} \right\}$
 Weather Cloudy
 Direction and Force of Current $\left\{ \begin{array}{l} \text{Surface} \\ \text{Bottom} \end{array} \right\}$
 Tide
 General Locality Bullock
 Position: at. $5^{\circ} 34' 00'' S$ $120^{\circ} 12' E$
 Chart used: No. 3616 Ed'n $\left\{ \begin{array}{l} \text{V} \\ \end{array} \right\}$
 Drift: Direction S. 40 E Distance 1.0
 Depth of Haul Botton
 Apparatus and Rig used U.S. Lefèvre
 Time towing h. 20 m.

Remarks:

SOUNDING WIRE		FMS.	DREDGING CABLE		
P.	M. DOWN.	UP.	P.	M.	M.
			0		
			100		
			200		
			300		
	10	10	400		
2	07	20	500		
	07	30	600		
	2	08	700		
			800		
			900		
			1000		
			1100		
			1200		
			1300		
			1400		
			1500		
			1600		
			1700		
			1800		
			1900		
			2000		
			2100		
			2200		
			2300		
			2400		
			2500		
			2600		
			2700		
			2800		
			2900		
			3000		
			3100		
			3200		
			3300		
			3400		
			3500		
			3600		
			3700		
			3800		
			3900		
			4000		
			4100		
			4200		
			4300		
			4400		
			4500		
			4600		
			4700		
			4800		
			4900		

North 80° CS

111

Dredge No. 100 Date, 1900
 Hydrog. No. 100 Reel Shot
 Sdg. Mch. 100 Lead lbs.
 Turns Cor'n Depth fms.
 Sdg. Cup Int. Bot'm Sample
 Character of Bottom Cor'n
 Thermom. Make N3 Instr. 8
 No. 12 of 12 Cor'n Stem.
 Bottom Reading 40° Cor'd Temp. 39.2
 Temp. Surf. 82° Time 4.30 p.m. Air 83.3°
 Temp. Surf. Time 4.50 p.m. Air
 Density: Surf. fms.
 Wind: Direction N.W. Force 2
 Baromet. Amt. of Clouds 6 State of Sea 8
 Weather
 Direction and Force of Current Surface
 of Current. Bottom
 Tide
 General Locality
 Position
 Chart used: No. 100 Ed'n 1
 Drift: Direction S. S.E. Distance
 Depth of Haul 10 fms.
 Apparatus and Rig used as before
 Time towing h. m.
 Remarks:

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

0 | 2 | 12 | 162 | 20

100 | 2 | 12 | 162 | 20

200 | 2 | 12 | 162 | 20

300 | 2 | 12 | 162 | 20

400 | 2 | 12 | 162 | 20

500 | 2 | 12 | 162 | 20

600 | 2 | 12 | 162 | 20

700 | 2 | 12 | 162 | 20

800 | 2 | 12 | 162 | 20

900 | 2 | 12 | 162 | 20

1000 | 2 | 12 | 162 | 20

1100 | 2 | 12 | 162 | 20

1200 | 2 | 12 | 162 | 20

1300 | 2 | 12 | 162 | 20

1400 | 2 | 12 | 162 | 20

1500 | 2 | 12 | 162 | 20

1600 | 2 | 12 | 162 | 20

1700 | 2 | 12 | 162 | 20

1800 | 2 | 12 | 162 | 20

1900 | 2 | 12 | 162 | 20

2000 | 2 | 12 | 162 | 20

2100 | 2 | 12 | 162 | 20

2200 | 2 | 12 | 162 | 20

2300 | 2 | 12 | 162 | 20

2400 | 2 | 12 | 162 | 20

2500 | 2 | 12 | 162 | 20

2600 | 2 | 12 | 162 | 20

2700 | 2 | 12 | 162 | 20

2800 | 2 | 12 | 162 | 20

2900 | 2 | 12 | 162 | 20

3000 | 2 | 12 | 162 | 20

3100 | 2 | 12 | 162 | 20

3200 | 2 | 12 | 162 | 20

3300 | 2 | 12 | 162 | 20

3400 | 2 | 12 | 162 | 20

3500 | 2 | 12 | 162 | 20

3600 | 2 | 12 | 162 | 20

3700 | 2 | 12 | 162 | 20

3800 | 2 | 12 | 162 | 20

3900 | 2 | 12 | 162 | 20

4000 | 2 | 12 | 162 | 20

4100 | 2 | 12 | 162 | 20

4200 | 2 | 12 | 162 | 20

4300 | 2 | 12 | 162 | 20

4400 | 2 | 12 | 162 | 20

4500 | 2 | 12 | 162 | 20

4600 | 2 | 12 | 162 | 20

4700 | 2 | 12 | 162 | 20

4800 | 2 | 12 | 162 | 20

4900 | 2 | 12 | 162 | 20

Dredge No. 192
Hydrog. No. Date, 1920
Sdg. Mch. Reel Shot
Turns Cor'n Depth fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom
Thermom. { Make Cor'n { Instr.
No. Stem
Bottom Reading Cor'd Temp.
Temp. Surf. { 65° Time 7:25 P.M. Air { 93°
83° Time 7:45 P.M. 83°
Density: Surf. fms.
Wind: Direction West Force 3
Baromet. 29.7 Amt. of Clouds 15 State of Sea
Weather Clear
Direction and Force { Surface
of Current. Bottom
Tide
General Locality
Position
Chart used: No. 3616 Baff. Edn.
Drift: Direction Distance
Depth of Haul
Apparatus and Rig used
Cone
Time towing — h. 21 m.
Remarks: *Very little haul*
Deck Officer C. J. C. Recorder
11-1023

SOUNDING WIRE.

M. Down. | Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0	22	52	42
400	7	300	900
200			
300			
400			
500			
600			
700			
800			
900			
1000			
1100			
1200			
1300			
1400			
1500			
1600			
1700			
1800			
1900			
2000			
2100			
2200			
2300			
2400			
2500			
2600			
2700			
2800			
2900			
3000			
3100			
3200			
3300			
3400			
3500			
3600			
3700			
3800	22	0	
3900			
4000			
4100			
4200			
4300			
4400			
4500			
4600			
4700			
4800			
4900			

SOUNDING WIRE.			FMS.	DREDGING CABLE.			
Q.M.	DOWN.	UP.	Q.M.	Q.M.	DOWN.	UP.	Q.M.
			0				
100	30	40	100	46	45	38	55
			200	47	48	39	56
32	38	38	300	53	00	51	65
32	40	37	370	56	15	47	40
34	25	37	500	59	00	43	35
			600	62	00	42	48
			700	64	00	43	50
			800	65	00	44	52
			900	67	00	45	53
			X 10000	68	00	46	55
			1100				
			X 1200				
			1300	70	00	47	57
			1400	72	00	48	58
			1500	74	00	49	59
			1600	76	00	50	60
			1700	78	00	51	61
			1800				
			1900				
			2000				
			2100				
			2200				
			2300				
			2400				
			2500				
			2600				
			2700				
			2800				
			2900				
			3000				
			3100				
			3200				
			3300				
			3400				
			3500				
			3600				
			3700				
			3800				
			3900				
			4000				
			4100				
			4200				
			4300				
			4400				
			4500				
			4600				
			4700				
			4800				
			4900				

Dredge } No. 5651 Date, Dec 19
Hydrog }
Sdg. Mch. uses Reel Shot heads lbs.
Turns Cor'n Depth fms.
Sdg. Cup Lucas Amt. Bot'm Sample None
Character of Bottom
Thermom. { Make Cor'n { Instr.
No. 71217 Stem.
Bottom Reading 39.5 Cor'd Temp. 38.7
Temp. Surf. { 84° Time 2:27 P. out
84° Time 2:53 P. Air }

Density: Surf. fms.
Wind: Direction N.N.W. Force 1-2
Baromet. 29.83 Amt. of Clouds 8 State of Sea S
Weather

Direction and Force { Surface
of Current. Bottom

Tide
General Locality

Position 5 Ed'n 2
Chart used: No. 3616 Ed'n V
Drift: Direction N. 11 W. Distance 2.9

Depth of Haul Bottom
Apparatus and Rig used

Time towing: h. m.
Remarks: 12.00 1.00 0.00 0.00

Deck Officer Recorder
11-1023

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
	M. DOWN.	UP.	M.		M.	UP.	M.
1	33 10	1	47 00	0	1	5 05	
	34 00		46 00	100		5 10	
	35 00		45 20	200	2	5 15	
	36 00		44 30	300		5 20	
	36 55		43 40	400		5 25	
	37 55		42 45	500		5 30	
	38 50		41 50	600		5 35	
	39 50	1	40 50	700		5 40	
				800		5 45	
				900		5 50	
				1000	2	5 55	3
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Dredge No. 2 Date, Aug. 19
Hydrog. Reel Shot
Sdg. Mech. Reel 2 lbs.
Turns 5 Cor'n Depth fms.
Sdg. Cup Sounding Amt. Bot'm Sample 1/2 oz.
Character of Bottom gy.
Thermom. { Make 55. Cor'n { Instr.
No. 28244 Stem.
Bottom Reading Cor'd. Temp.
Temp. Surf. { 84° Time 5:25 P.M. } Air { 84°
83° Time 5:25 P.M. } 2°
Density: Surf. fms.
Wind: Direction N.E. Force 1
Baromet. 29.75 Amt. of Clouds State of Sea
Weather
Direction and Force { Surface
of Current. Bottom

Tide
General Locality N.E. P. C.
To Land in S. B. S.
Position 12° 23' S. 120° 23' E.
Chart used: No. 5 Ed'n
Drift: Direction Distance
Depth of Haul Bottom
Apparatus and Rig used 12' Sounding
Time towing h. 20 m.
Remarks:

SOUNDING WIRE

M. Down. | Up. | M.

DREDGING CABLE

M. Down. | Up. | M.

0	4	50	00	6	13	00
100						
200						
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400						
500						
600						
700		15	10		60	00
800						
900						
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2800						
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3400						
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3700						
3800						
3900						
4000						
4100						
4200						
4300						
4400						
4500						
4600						
4700						
4800						
4900						

SOUNDING WIRE.

M. Down, | Up, | M.

FMS.

DREDGING CABLE.

M. Down, | Up, | M.

0	7	22	60	7	14	50
100	7	23	60	7	14	50
200						
300						
400						
500						
600						
700						
800						
900						
1000						
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1200						
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4700						
4800						
4900						

7	12	22	60	7	14	50
7	23	60	7	14	50	

Dredge Hydrog No. 1 Date, 19
Sdg. Mch. Decade Reel 100 Shot 60 lbs.
Turns 805 Cor'n 11 Depth 605 fms.
Sdg. Cup Decade Amt. Bot'm Sample
Character of Bottom
Thermom. 11.7 Make 11.7 Cor'n 11.7 Instr.
No. 24 Stem
Bottom Reading 39.1° Cor'd Temp. 38.3
Temp. Surf. 53° Time 6:10 Air 71°
83 Time 7:15 A 82°

Density: Surf. 1.025 fms.
Wind: Direction SW Force 3
Baromet. 29.85 Amt. of Clouds 3-4 State of Sea Smooth
Weather Cloudy

Direction and Force of Current. Surface
Bottom

Tide Low
General Locality Off Cape Hatteras
Position Lat. 35° 15' N. Long. 75° 45' W.
Chart used: No. 100 Ed'n 1
Drift: Direction SW Distance 10 miles
Depth of Haul 605 fms.
Apparatus and Rig used Decade
Time towing 28 m.
Remarks

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
Q M. DOWN.	UP.	Q M.		Q M. DOWN.	UP.	Q M.
5- 33 46	5- 49 30		0	5- 55 40	7	5- 8 10
34 30	48 30		100	6 01 15		5- 4 40
35 25	47 40		200	06 20		5- 1 30
36 15	46 55		300	10 35		4- 6 25
37 15	46 10		400	15- 00		4- 5 10
38 05	45 20		500	18 20		4- 1 50
39 00	44 30		600	21 50		3- 8 10
40 00	43 30		700	23- 10		3- 4 25
41 10	42 25		800	28 35		3- 0 45
5- 41 15	5- 42 15	805 900		32 10		2- 7 15
			1000	40 10		2- 3 20
			1100	44 60		1- 9 40
			1200	6 47 15	7	1- 5 15
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
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			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
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			3600		217 E	
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
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			4700			
			4800			
			4900			

7g Tabako

21.5

12.61.55

11.54.25

7.301.2

6
10
12
10

8



11.54.25

5.32

57.55

9
11
9
7

8



25.00
06.40
17.20

53-80
29-45
22-45

MA	11N5
174	40
170	36
165	32
160	29
155	25
150	21
145	18
140	14
135	10
130	6
125	3
120	99
115	93
110	91
105	87
100	83
95	79
90	75
85	71
80	67
75	63
70	59
65	55
60	51
55	47
50	43
45	39
40	35
35	31
30	27
25	23
20	18
15	14
10	9
5	5